

Amendments to the Claims

Claim 1 (Currently amended): A luminaire assembly comprising:

- a. a bulb cone includes an interior chamber in which is positioned a frame, the frame including a receiver adapted to fixedly hold a first finger-safe electrical connection and a guide adapted to guide a complementary second finger-safe connection into operative but manually releasable engagement with the second finger-safe connection;
- b. a mounting connection adapted to mount the bulb cone to a support;
- c. a reflector having a portion adapted for connection to the bulb cone and an opening adapted to be covered by a lens;
- d. a mount for a double-ended unjacketed HID light source, the mount adapted to be positioned interiorly of the reflector and including a member adapted to removably receive and hold a double-ended HID light source; and
- e. an electrical power connection adapted for connection to a source of electrical power.

Claim 2 (Cancelled). The luminaire assembly of claim 1 wherein the bulb cone includes an interior chamber in which is positioned a frame, the frame including a receiver adapted to fixedly hold a first finger-safe electrical connection and a guide adapted to guide a complementary second finger-safe connection into operative but manually releasable engagement with the second finger-safe connection.

Claim 3 (Original): The apparatus of claim 2 further comprising another receiver and guide adapted for a second set of first and second finger-safe connections.

Claim 4 (Original): The apparatus of claim 2 wherein the second finger-safe connection has an elongated insulated body.

Claim 5 (Original): The apparatus of claim 2 wherein the first finger-safe connection is positioned in the interior of the bulb cone and the second finger-safe connection, when engaged with the first finger-safe connection, extends towards the reflector.

Claim 6 (Original): The apparatus of claim 5 further comprising a removable portion of the reflector at the portion attached to the bulb cone to gain access to the finger-safe connections.

Claim 7 (Original): The luminaire assembly of claim 1 wherein said mount for said HID source comprises first and second spaced apart receivers, one for each of said double ends of the HID source; each receiver connected to an arm extending to a portion adapted for mounting to either the reflector or the bulb cone, such that the receivers are positioned to hold an HID source in a desired position interiorly of the reflector.

Claim 8 (Original): The luminaire assembly of claim 7 further comprising manually releasably members on one of the receivers or the HID light source adapted to releasably lock the HID source into the receivers.

Claim 9 (Original): The luminaire assembly of claim 8 wherein the manually releasable members comprise resilient devices that engage and lock into complementary structure in the receivers.

Claim 10 (Original): The luminaire assembly of claim 9 wherein the manually releasable members comprise spring clips attached to ends of the HID source, the spring clips in a normal state being expanded in at least one direction, and having manually manipulatable portions allowing retraction in said at least one direction.

Claim 11 (Original): The luminaire assembly of claim 8 further comprising structure to orient said HID source in a desired rotation orientation relative to a longitudinal axis of an HID source when mounted.

Claim 12 (Original): The luminaire assembly of claim 11 further comprising a reflective member on a portion of an HID source, the reflective member positioned to redirect light energy from the source interiorly of the source.

Claim 13 (Original): The luminaire assembly of claim 1 further comprising an ignitor circuit for the HID source, the ignitor circuit adapted to be segregated from a ballast circuit for the HID source, the ignitor circuit being closer to the HID source than to the ballast circuit.

Claim 14 (Original): The luminaire assembly of claim 13 further comprising a housing for the ignitor circuit adapted to be mounted on or adjacent to the luminaire assembly.

Claim 15 (Original): The luminaire assembly of claim 14 wherein the ignitor circuit housing is adapted to be mounted to the bulb cone of the luminaire assembly.

Claim 16 (Original): The luminaire assembly of claim 1 further comprising a UV attenuation applied to the HID source.

Claim 17 (Original): The luminaire assembly of claim 16 wherein the UV attenuation substantially attenuates UV radiation from any part of the HID source.

Claim 18 (Original): The luminaire assembly of claim 1 wherein the HID source is an arc tube having about 1000 watts or more rating.

Claim 19 (Original): The luminaire assembly of claim 1 where there is no exposed electrically conducting surface from the HID source to a connection to a source of electrical power when the electrical circuit is connected.

Claim 20 (Original): The luminaire assembly of claim 19 where there is no electrically conducting surface that can be accessed by human fingers when connections to electrical power at the luminaire assembly are disconnected.

Claim 21 (Original): A method of generating light from a luminaire assembly according to claim 1 having an HID light source comprising: positioning an HID light source in the form of an

arc tube in a reflector; redirecting light from a portion of the HID light source that otherwise would leave the arc tube back towards a portion of the arc tube.

Claim 22 (Currently amended): The method of claim 21 wherein the light is redirected in a manner to encourage ~~isothermal conditions in~~ uniform heating of the arc tube.

Claim 23 (Previously presented): A luminaire assembly comprising:

- a. a bulb cone including an interior chamber in which is positioned a frame, the frame including a receiver adapted to fixedly hold a first finger-safe electrical connection and a guide adapted to guide a complementary second finger-safe connection into operative but manually releasable engagement with the second finger-safe connection;
- b. a mounting connection adapted to mount the bulb cone to a support;
- c. a reflector having a portion adapted for connection to the bulb cone and an opening adapted to be covered by a lens;
- d. a mount for a double-ended unjacketed HID light source, the mount adapted to be positioned interiorly of the reflector and including a member adapted to removably receive and hold a double-ended HID light source; and
- e. an electrical power connection adapted for connection to a source of electrical power.

Claim 24 (Previously presented): The apparatus of claim 23 further comprising another receiver and guide adapted for a second set of first and second finger-safe connections.

Claim 25 (Previously presented): The apparatus of claim 23 wherein the second finger-safe connection has an elongated insulated body.

Claim 26 (Previously presented): The apparatus of claim 23 wherein the first finger-safe connection is positioned in the interior of the bulb cone and the second finger-safe connection, when engaged with the first finger-safe connection, extends towards the reflector.

Claim 27 (Previously presented): The apparatus of claim 26 further comprising a removable portion of the reflector at the portion attached to the bulb cone to gain access to the finger-safe connections.

Claim 28 (Previously presented): The luminaire assembly of claim 23 wherein said mount for said HID source comprises first and second spaced apart receivers, one for each of said double ends of the HID source; each receiver connected to an arm extending to a portion adapted for mounting to either the reflector or the bulb cone, such that the receivers are positioned to hold an HID source in a desired position interiorly of the reflector.

Claim 29 (Previously presented): The luminaire assembly of claim 28 further comprising manually releasably members on one of the receivers or the HID light source adapted to releasably lock the HID source into the receivers.

Claim 30 (Previously presented): The luminaire assembly of claim 29 wherein the manually releasable members comprise resilient devices that engage and lock into complementary structure in the receivers.

Claim 31 (Previously presented): The luminaire assembly of claim 30 wherein the manually releasable members comprise spring clips attached to ends of the HID source, the spring clips in a normal state being expanded in at least one direction, and having manually manipulatable portions allowing retraction in said at least one direction.

Claim 32 (Previously presented): The luminaire assembly of claim 29 further comprising structure to orient said HID source in a desired rotation orientation relative to a longitudinal axis of an HID source when mounted.

Claim 33 (Previously presented): The luminaire assembly of claim 32 further comprising a reflective member on a portion of an HID source, the reflective member positioned to redirect light energy from the source interiorly of the source.

Claim 34 (Previously presented): The luminaire assembly of claim 23 further comprising an ignitor circuit for the HID source, the ignitor circuit adapted to be segregated from a ballast circuit for the HID source, the ignitor circuit being closer to the HID source than to the ballast circuit.

Claim 35 (Previously presented): The luminaire assembly of claim 34 further comprising a housing for the ignitor circuit adapted to be mounted on or adjacent to the luminaire assembly.

Claim 36 (Previously presented): The luminaire assembly of claim 35 wherein the ignitor circuit housing is adapted to be mounted to the bulb cone of the luminaire assembly.

Claim 37 (Previously presented): The luminaire assembly of claim 23 further comprising a UV attenuation applied to the HID source.

Claim 38 (Previously presented): The luminaire assembly of claim 37 wherein the UV attenuation substantially attenuates UV radiation from any part of the HID source.

Claim 39 (Previously presented): The luminaire assembly of claim 23 wherein the HID source is an arc tube having about 1000 watts or more rating.

Claim 40 (Previously presented): The luminaire assembly of claim 23 where there is no exposed electrically conducting surface from the HID source to a connection to a source of electrical power when the electrical circuit is connected.

Claim 41 (Previously presented): The luminaire assembly of claim 40 where there is no electrically conducting surface that can be accessed by human fingers when connections to electrical power at the luminaire assembly are disconnected.

Claim 42 (Previously presented): A method of generating light from a luminaire assembly according to claim 23 having an HID light source comprising: positioning an HID light source in the form of an arc tube in a reflector; redirecting light from a portion of the HID light source that otherwise would leave the arc tube back towards a portion of the arc tube.

Claim 43 (Previously presented): The method of claim 42 wherein the light is redirected in a manner to encourage isothermal conditions in the arc tube.

Claim 44 (Previously presented): A luminaire assembly comprising:

- a. a bulb cone;
- b. a mounting connection adapted to mount the bulb cone to a support;
- c. a reflector having a portion adapted for connection to the bulb cone and an opening adapted to be covered by a lens;
- d. a mount for a double-ended unjacketed HID light source, the mount adapted to be positioned interiorly of the reflector and including a member adapted to removably receive and hold a double-ended HID light source, said mount comprising first and second spaced apart receivers, one for each of said double ends of the HID light source; each receiver connected to an arm extending to a portion adapted for mounting to either the reflector or the bulb cone, such that the receivers are positioned to hold an HID light source in a desired position interiorly of the reflector, further comprising manually releasably members on one of the receivers or the HID light source adapted to releasably lock the HID light source into the receivers, the manually releasable members comprising resilient devices that engage and lock into complementary structure in the receivers, the manually releasable members comprising spring clips attached to ends of the HID light source, the spring clips in a normal state being expanded in at least one direction, and having manually manipulatable portions allowing retraction in said at least one direction; and
- e. an electrical power connection adapted for connection to a source of electrical power.

Claim 45 (Previously presented): The luminaire assembly of claim 44 wherein the bulb cone includes an interior chamber in which is positioned a frame, the frame including a receiver adapted to fixedly hold a first finger-safe electrical connection and a guide adapted to guide a complementary second finger-safe connection into operative but manually releasable engagement with the second finger-safe connection.

Claim 46 (Previously presented): The apparatus of claim 45 further comprising another receiver and guide adapted for a second set of first and second finger-safe connections.

Claim 47 (Previously presented): The apparatus of claim 45 wherein the second finger-safe connection has an elongated insulated body.

Claim 48 (Previously presented): The apparatus of claim 45 wherein the first finger-safe connection is positioned in the interior of the bulb cone and the second finger-safe connection, when engaged with the first finger-safe connection, extends towards the reflector.

Claim 49 (Previously presented): The apparatus of claim 48 further comprising a removable portion of the reflector at the portion attached to the bulb cone to gain access to the finger-safe connections.

Claim 50 (Previously presented): The luminaire assembly of claim 44 further comprising structure to orient said HID source in a desired rotation orientation relative to a longitudinal axis of an HID source when mounted.

Claim 51 (Previously presented): The luminaire assembly of claim 50 further comprising a reflective member on a portion of an HID source, the reflective member positioned to redirect light energy from the source interiorly of the source.

Claim 52 (Previously presented): The luminaire assembly of claim 44 further comprising an ignitor circuit for the HID source, the ignitor circuit adapted to be segregated from a ballast

circuit for the HID source, the ignitor circuit being closer to the HID source than to the ballast circuit.

Claim 53 (Previously presented): The luminaire assembly of claim 52 further comprising a housing for the ignitor circuit adapted to be mounted on or adjacent to the luminaire assembly.

Claim 54 (Previously presented): The luminaire assembly of claim 53 wherein the ignitor circuit housing is adapted to be mounted to the bulb cone of the luminaire assembly.

Claim 55 (Previously presented): The luminaire assembly of claim 44 further comprising a UV attenuation applied to the HID source.

Claim 56 (Previously presented): The luminaire assembly of claim 55 wherein the UV attenuation substantially attenuates UV radiation from any part of the HID source.

Claim 57 (Previously presented): The luminaire assembly of claim 44 wherein the HID source is an arc tube having about 1000 watts or more rating.

Claim 58(Previously presented): The luminaire assembly of claim 44 where there is no exposed electrically conducting surface from the HID source to a connection to a source of electrical power when the electrical circuit is connected.

Claim 59 (Previously presented): The luminaire assembly of claim 58 where there is no electrically conducting surface that can be accessed by human fingers when connections to electrical power at the luminaire assembly are disconnected.

Claim 60 (Previously presented): A method of generating light from a luminaire assembly according to claim 44 having an HID light source comprising: positioning an HID light source in the form of an arc tube in a reflector; redirecting light from a portion of the HID light source that otherwise would leave the arc tube back towards a portion of the arc tube.

Claim 61 (Previously presented): The method of claim 60 wherein the light is redirected in a manner to encourage isothermal conditions in the arc tube.

Claim 62 (New): A luminaire assembly, comprising:

- a. a bulb cone includes an interior chamber in which is positioned a frame, the frame including a receiver adapted to fixedly hold a first finger-safe electrical connection and a guide adapted to guide a complementary second finger-safe connection into operative but manually releasable engagement with the second finger-safe connection;
- b. a mounting connection adapted to mount the bulb cone to a support;
- c. a reflector having a portion adapted for connection to the bulb cone and an opening adapted to be covered by a lens;
- d. a mount for a double-ended unjacketed HID light source, the mount adapted to be positioned interiorly of the reflector and including a member adapted to removably receive and hold a double-ended HID light source;
- e. an electrical power connection adapted for connection to a source of electrical power;
- f. said mount for said HID source comprises first and second spaced apart receivers, one for each of said double ends of the HID source; each receiver connected to an arm extending to a portion adapted for mounting to either the reflector or the bulb cone, such that the receivers are positioned to hold an HID source in a desired position interiorly of the reflector;
- g. further comprising manually releasable members on one of the receivers or the HID light source adapted to releasably lock the HID source into the receivers;
- h. wherein the manually releasable members comprise resilient devices that engage and lock into complementary structure in the receivers; and
- i. wherein the manually releasable members comprise spring clips attached to ends of the HID source, the spring clips in a normal state being expanded in at least one direction, and having manually manipulatable portions allowing retraction in said at least one direction.

Claim 63 (New): The luminaire assembly of claim 62 further comprising another receiver and guide adapted for a second set of first and second finger-safe connections.

Claim 64 (New): The luminaire assembly of claim 62 wherein the second finger-safe connection has an elongated insulated body.

Claim 65 (New): The luminaire assembly of claim 62 wherein the first finger-safe connection is positioned in the interior of the bulb cone and the second finger-safe connection, when engaged with the first finger-safe connection, extends towards the reflector.

Claim 66 (New): The luminaire assembly of claim 65 further comprising a removable portion of the reflector at the portion attached to the bulb cone to gain access to the finger-safe connections.

Claim 67 (New): The luminaire assembly of claim 62 further comprising structure to orient said HID source in a desired rotation orientation relative to a longitudinal axis of an HID source when mounted.

Claim 68 (New): The luminaire assembly of claim 62 further comprising a reflective member on a portion of an HID source, the reflective member positioned to redirect light energy from the source interiorly of the source.

Claim 69 (New): The luminaire assembly of claim 62 further comprising an ignitor circuit for the HID source, the ignitor circuit adapted to be segregated from a ballast circuit for the HID source, the ignitor circuit being closer to the HID source than to the ballast circuit.

Claim 70 (New): The luminaire assembly of claim 62 further comprising a housing for the ignitor circuit adapted to be mounted on or adjacent to the luminaire assembly.

Claim 71 (New): The luminaire assembly of claim 62 wherein the ignitor circuit housing is adapted to be mounted to the bulb cone of the luminaire assembly.

Claim 72 (New): The luminaire assembly of claim 62 further comprising a UV attenuation applied to the HID source.

Claim 73 (New): The luminaire assembly of claim 62 wherein the UV attenuation substantially attenuates UV radiation from any part of the HID source.

Claim 74 (New): The luminaire assembly of claim 62 wherein the HID source is an arc tube having about 1000 watts or more rating.

Claim 75 (New): The luminaire assembly of claim 62 where there is no exposed electrically conducting surface from the HID source to a connection to a source of electrical power when the electrical circuit is connected.

Claim 76 (New): The luminaire assembly of claim 62 where there is no electrically conducting surface that can be accessed by human fingers when connections to electrical power at the luminaire assembly are disconnected.

Claim 77 (New): A method of generating light from a luminaire assembly according to claim 62 having an HID light source comprising: positioning an HID light source in the form of an arc tube in a reflector; redirecting light from a portion of the HID light source that otherwise would leave the arc tube back towards a portion of the arc tube.

Claim 78 (New): The method of claim 77 wherein the light is redirected in a manner to encourage uniform heating of the arc tube.